

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02597

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G09F3/30, G09G3/20, H05B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G09G3/30, G09G3/20, H05B33/14, G05F1/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1926-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| E, X | JP 2003-150104 A (Matsushita Electric Industrial Co., Ltd.), 23 May, 2003 (23.05.03), Par. Nos. [0372] to [0422]; Figs. 1 to 2, 37 to 38 (Family: none) | 1-2 |
| Y | JP 2002-40990 A (Semiconductor Energy Laboratory Co., Ltd.), 08 February, 2002 (08.02.02), Par. No. [0015] & KR 2001/105273 A & US 2001/048106 A1 | 1-2 |
| Y | JP 2001-42822 A (Pioneer Electronic Corp.), 16 February, 2001 (16.02.01), Par. Nos. [0013] to [0023], [0026] to [0027]; Figs. 3, 5, 6, 9 to 11 (Family: none) | 1-2 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search
05 June, 2003 (05.06.03)Date of mailing of the international search report
17 June, 2003 (17.06.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02597

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | JP 10-232649 A (Casio Computer Co., Ltd.), 02 September, 1998 (02.09.98), Par. Nos. [0014] to [0023]; Figs. 1 to 5 & CN 1216135 A & EP 906609 A1 & KR 2000/064789 A & TW 441136 A & US 5990629 A & CA 2249592 C & WO 98/33165 A1 | 1-2 |
| Y | JP 2001-60076 A (Sony Corp.), 06 March, 2001 (06.03.01), Par. Nos. [0025], [0032]; Fig. 5 & CN 1278635 A & EP 1061497 A1 & KR 2001/039666 A | 1-2 |
| Y | WO 01/006484 A1 (Sony Corp.), 25 January, 2001 (25.01.01), Pages 50 to 55; Figs. 11, 13 to 14 & EP 1130565 A1 & KR 2001/085788 A | 1-2 |
| P,Y | JP 2003-29708 A (Matsushita Electric Industrial Co., Ltd.), 31 January, 2003 (31.01.03), Par. Nos. [0127] to [0131]; Fig. 31 (Family: none) | 1-2 |
| P,Y | JP 2003-66865 A (Matsushita Electric Industrial Co., Ltd.), 05 March, 2003 (05.03.03), Par. Nos. [0098] to [0106]; Fig. 1 (Family: none) | 1-2 |